

Site Listings



Section III

Unknown Source/Water Supply Sites

Sites With Unknown Sources of Contamination Where Immediate Environmental Concerns Have Been Addressed

The 50 sites listed below include both residential and municipal potable wells that have become contaminated and were dealt with by NJDEP in past years. At the majority of the sites, volatile organic compounds were the primary contaminants of concern detected and some form of receptor control has been installed to protect public health. For residential wells, once contamination was confirmed at levels above state drinking water standards, a Point-of-Entry Treatment (POET) home water filtration system normally was installed as an interim measure until a long-term water supply alternative could be developed. In many cases the long-term solution was to extend water lines to affected properties, while some involved maintaining and monitoring the existing POET systems. Some municipal water supply wells had to be taken out of service or relocated. All eligible costs of interim and long-term water treatment systems, supplies and other actions were reimbursed by NJDEP through the State's Spill Fund. For affected municipal wells, NJDEP paid for construction of treatment systems also through the Spill Fund while the local governments covered the costs associated with operation, maintenance and monitoring of the systems. NJDEP has completed unknown source investigations at the sites marked with asterisks, and is, or will be, conducting unknown source investigations at many of the remaining sites to identify possible sources of the ground water contamination.

Atlantic County

Site Name: New York Avenue Ground Water Contamination	Action Taken: Receptor Control–Water Line
Street Address: New York Avenue	
Municipality: Absecon City	Contaminants: Tetrachloroethylene 1,1,1-Trichloroethane 1,1-Dichloroethylene
Site Name: Boston Avenue Ground Water Contamination	Action Taken: Receptor Control–Water Line
Street Address: Boston Avenue	
Municipality: Egg Harbor Township	Contaminants: Tetrachloroethylene Trichloroethylene Mercury
Site Name: Delilah Oaks Ground Water Contamination	Action Taken: Receptor Control–Water Line
Street Address: Delilah Road and Kingsley Drive	
Municipality: Egg Harbor Township	Contaminants: Tetrachloroethylene Trichloroethylene cis-1,2-Dichloroethene
Site Name: Farmington II Ground Water Contamination	Action Taken: Receptor Control–Water Line
Street Address: Doughty and Fire Roads and Spruce Avenue	
Municipality: Egg Harbor Township	Contaminants: Mercury
Site Name: Carvel Avenue Ground Water Contamination	Action Taken: Receptor Control–POETS/Water Line
Street Address: Carvel Avenue	
Municipality: Galloway Township	Contaminants: Benzene
Site Name: Lisa Drive Ground Water Contamination*	Action Taken: Receptor Control–POETS
Street Address: Lisa Drive	
Municipality: Galloway Township	Contaminants: Tetrachloroethylene Trichloroethylene

Atlantic County (continued)

Site Name: Haddon Avenue Ground Water Contamination	Action Taken: Receptor Control–Water Line
Street Address: Haddon Avenue	
Municipality: Northfield City	Contaminants: Trichloroethylene Tetrachloroethylene Carbon Tetrachloride
Site Name: Pinehurst Section Ground Water Contamination	Action Taken: Receptor Control–Water Line
Street Address: Various Locations	
Municipality: Galloway Township	Contaminants: Trichloroethylene Mercury Tetrachloroethylene Methylene Chloride
Site Name: Spring Mill Drive Ground Water Contamination	Action Taken: Receptor Control–POETS/Water Line
Street Address: Spring Mill Drive	
Municipality: Galloway Township	Contaminants: Trichloroethylene Mercury

Bergen County

Site Name: Hackensack Water Company Emerson Well 11	Action Taken: Receptor Control–Well Taken Out of Service
Street Address: Main Street and Glenwood Avenue	
Municipality: Emerson Borough	Contaminants: Trichloroethylene
Site Name: Ramapo Indian Hill Regional High School	Action Taken: Receptor Control–Water Line
Street Address: 331 George Street	
Municipality: Franklin Lakes Borough	Contaminants: Tetrachloroethylene
Site Name: Magnolia Avenue Ground Water Contamination	Action Taken: Receptor Control–Water Line
Street Address: Magnolia Avenue	
Municipality: Maywood Borough	Contaminants: Tetrachloroethylene 1,2-Dichloroethane Chloroform
Site Name: Ridgewood Village Well Dept. Grove Street Well	Action Taken: Receptor Control–Treatment System
Street Address: Grove Street	
Municipality: Ridgewood Village	Contaminants: Tetrachloroethylene
Site Name: Ridgewood Village Well Dept. Walthery & Twinney	Action Taken: Receptor Control–Treatment System
Street Address: Walthery Avenue and Red Birch Court	
Municipality: Ridgewood Village	Contaminants: Tetrachloroethylene 1,1,1-Trichloroethane Methyl-tertiary-butyl Ether

Cape May County

Site Name: Cape May Court House Ground Water Contamination	Action Taken: Receptor Control–Water Line
Street Address: Various Locations	
Municipality: Middle Township	Contaminants: Trichloroethylene

Cape May County (continued)

Site Name: Mayville Ground Water Contamination
Street Address: Route 9 & 4th and Reading Avenues
Municipality: Middle Township

Action Taken: Receptor Control–Water Line

Contaminants: Tetrachloroethylene
Polychlorinated Biphenyls

Site Name: Whippoorwill Campground
Street Address: 810 South Shore Road
Municipality: Upper Township

Action Taken: Receptor Control–Water Line

Contaminants: Benzene
Xylene
Toluene

Cumberland County

Site Name: Vineland City Water & Sewer Authority Well 7
Street Address: Mill and Almond Roads
Municipality: Vineland City

Action Taken: Receptor Control–Treatment
System/Water Line
Tetrachloroethylene
Trichloroethylene

Essex County

Site Name: Fairfield Township Well Department Wells 2 & 7
Street Address: Passaic Avenue and Greenbrook and Fairfield Roads
Municipality: Fairfield Township

Action Taken: Receptor Control–Wells Taken Out
of Service

Contaminants: 1,1,1-Trichloroethane–Wells 2 & 7
Trichloroethylene–Wells 2 & 7
1,2-Dichloroethane–Well 2
Tetrachloroethylene–Well 7

Site Name: West Caldwell Boro. Ground Water Contamination
Street Address: Passaic and Harrison Avenues
Municipality: West Caldwell Borough

Action Taken: Receptor Control–Water Line

Contaminants: Trichloroethylene
1,1,1-Trichloroethane
cis-1,2-Dichloroethene

Gloucester County

Site Name: Villa Rosello School
Street Address: Main Street and Catawba Road
Municipality: Franklin Township

Action Taken: Receptor Control–Water Line

Contaminants: Mercury

Hunterdon County

Site Name: Pennsylvania Avenue Ground Water Contamination
Street Address: Pennsylvania Avenue
Municipality: Flemington Borough

Action Taken: Receptor Control

Contaminants: Benzene
Tetrachloroethylene

Mercer County

Site Name: Claflin Avenue Ground Water Contamination
Street Address: Claflin and St. Paul Avenues
Municipality: Ewing Township

Action Taken: Receptor Control–Water Line

Contaminants: Volatile Organic Compounds

Mercer County (continued)

Site Name:	Harding Street Ground Water Contamination	Action Taken:	Receptor Control–Water Line
Street Address:	Harding Street		
Municipality:	Ewing Township	Contaminants:	1,1,1-Trichloroethane Tetrachloroethylene 1,1-Dichloroethylene
Site Name:	Morningside Court Ground Water Contamination	Action Taken:	Receptor Control–POETS
Street Address:	West Delaware Avenue and Route 31		
Municipality:	Pennington Borough	Contaminants:	Tetrachloroethylene

Middlesex County

Site Name:	Mountainview Terrace Ground Water Contamination	Action Taken:	Receptor Control–POETS/Water Line
Street Address:	Mountainview Terrace		
Municipality:	Dunellen Borough	Contaminants:	Tetrachloroethylene Trichloroethylene
Site Name:	Franklin Avenue Ground Water Contamination	Action Taken:	Receptor Control–Water Line
Street Address:	Franklin Avenue		
Municipality:	Piscataway Township	Contaminants:	Tetrachloroethylene Trichloroethylene
Site Name:	Millstone Apartments & Holiday Inn	Action Taken:	Receptor Control
Street Address:	Route 1		
Municipality:	Plainsboro Township	Contaminants:	Trichloroethylene Tetrachloroethylene

Morris County

Site Name:	Netcong Borough Water Department Well 5	Action Taken:	Receptor Control–Well
Street Address:	Flanders Road		Temporarily Taken Out of Service
Municipality:	Netcong Borough	Contaminants:	Not Available

Ocean County

Site Name:	Butler Boulevard Ground Water Contamination*	Action Taken:	Receptor Control–Water Line
Street Address:	Butler Boulevard		
Municipality:	Berkeley Township	Contaminants:	Benzene
Site Name:	Breton Harbors Ground Water Contamination	Action Taken:	Receptor Control–Water Line
Street Address:	Breton Harbor Drive		
Municipality:	Dover Township	Contaminants:	Tetrachloroethylene Trichloroethylene 1,1,1-Trichloroethane 1,1-Dichloroethylene
Site Name:	Gilford Park Ground Water Contamination*	Action Taken:	Receptor Control–Water Line
Street Address:	Victor Avenue		
Municipality:	Dover Township	Contaminants:	Tetrachloroethylene

Ocean County (continued)

Site Name:	Holly Village Ground Water Contamination	Action Taken:	Receptor Control–Water Line
Street Address:	Harvey Road and Alfred & Holly Village Lanes	Contaminants:	Benzene
Municipality:	Dover Township		
Site Name:	Shelter Cove Ground Water Contamination*	Action Taken:	Receptor Control–Water Line
Street Address:	Fischer Boulevard	Contaminants:	Volatile Organic Compounds
Municipality:	Dover Township		
Site Name:	Barnegat Pines North Ground Water Contamination	Action Taken:	Receptor Control–POETS/Water Line
Street Address:	Various Locations	Contaminants:	Tetrachloroethylene Trichloroethylene
Municipality:	Lacey Township		
Site Name:	Constitution Drive Ground Water Contamination*	Action Taken:	Receptor Control–POETS/Water Line
Street Address:	Constitution Drive	Contaminants:	Benzene Mercury
Municipality:	Lacey Township		
Site Name:	Lake Barnegat Dr. N Ground Water Contamination	Action Taken:	Receptor Control–Water Line/ POETS
Street Address:	Lake Barnegat Drive N	Contaminants:	Tetrachloroethylene Trichloroethylene
Municipality:	Lacey Township		
Site Name:	Lanoka Harbor Ground Water Contamination*	Action Taken:	Receptor Control–Water Line
Street Address:	Lanoka Harbor	Contaminants:	1,1,1-Trichloroethane 1,1-Dichloroethylene
Municipality:	Lacey Township		
Site Name:	Great Bay Plaza	Action Taken:	Receptor Control–Water Line
Street Address:	232 Mathistown Road	Contaminants:	Tetrachloroethylene
Municipality:	Little Egg Harbor Township		
Site Name:	Little Egg Harbor Atlantis Section	Action Taken:	Receptor Control–Water Line
Street Address:	Saint Andrews Drive	Contaminants:	Tetrachloroethylene
Municipality:	Little Egg Harbor Township		
Site Name:	Lucy Road Ground Water Contamination*	Action Taken:	Receptor Control–New Wells Drilled
Street Address:	Lucy Road	Contaminants:	Nitrates
Municipality:	Lakewood Township		
Site Name:	Pine Lake Park Ground Water Contamination*	Action Taken:	Receptor Control–POETS/Water Line
Street Address:	Morningside Street	Contaminants:	Trichloroethylene 1,1,1-Trichloroethane Carbon Tetrachloride
Municipality:	Manchester Township		

Passaic County

Site Name:	High Crest Lake Water Company*	Action Taken:	Receptor Control–Well Taken Out of Service
Street Address:	73 High Crest Drive	Contaminants:	Volatile Organic Compounds
Municipality:	West Milford Township		

Somerset County

Site Name: Longwood Avenue Ground Water Contamination	Action Taken: Receptor Control–Water Line
Street Address: Longwood Avenue	
Municipality: Bound Brook Borough	Contaminants: Volatile Organic Compounds
Site Name: Laurel Avenue Ground Water Contamination	Action Taken: Receptor Control–POETS
Street Address: Laurel Avenue	
Municipality: Franklin Township	Contaminants: Carbon Tetrachloride 1,1 Dichloroethylene Trichloroethylene Tetrachloroethylene 1,1,2 Trichloroethane
Site Name: Elizabethtown Well Co. Green Brook Well Field	Action Taken: Receptor Control–Treatment System
Street Address: 115 Rock Avenue	
Municipality: Green Brook Township	Contaminants: Volatile Organic Compounds
Site Name: Old Champlain Ground Water Contamination	Action Taken: Receptor Control–Water Line
Street Address: Old Champlain Road	
Municipality: Hillsborough Township	Contaminants: Volatile Organic Compounds

Sussex County

Site Name: Byram Township Intermediate School	Action Taken: Receptor Control–POETS
Street Address: 12 Mansfield Drive	
Municipality: Byram Township	Contaminants: Volatile Organic Compounds
Site Name: Lake Tamarack Water Company Well 3	Action Taken: Receptor Control–POETS
Street Address: Lakeside Road	
Municipality: Hardyston Township	Contaminants: Carbon Tetrachloride

Union County

Site Name: Elizabethtown Well Co. Green Brook Park Well	Action Taken: Receptor Control–Treatment System
Street Address: Park & West End Avenues	
Municipality: Plainfield City	Contaminants: Volatile Organic Compounds

Total: 50

Unknown Source/Water Supply Sites

Summary of Sites Where Unknown Source Ground Water Investigations Were Completed in 2000

The Environmental Measurements and Site Assessment Section of the Site Remediation Program is responsible for identifying, investigating and confirming suspected sources of potable well contamination. There are two objectives of unknown source investigations. First, identifying the source of contamination enables either a responsible party or NJDEP to implement a remedial action to stop the discharge of contamination or remove the source material to limit further public exposure. Second, the identification of the responsible parties allows NJDEP to pursue them for past expenses associated with these cases. Funding for the unknown source investigations is provided under a cooperative agreement with the USEPA.

The unknown source investigations completed during 2000 are summarized below.

Beachwood and Veeder Avenues Ground Water Contamination Dover Township, Ocean County

This case consists of 21 private potable wells that were contaminated with volatile organic compounds and mercury at levels exceeding New Jersey Drinking Water Standards. The mercury contamination was discovered in 1996 and the volatile organic contamination was discovered in 1997. NJDEP has installed Point-of-Entry Treatment systems (POETS) on the contaminated wells using Spill Fund money and delineated the Currently Known Extent (CKE) of the ground water contamination. NJDEP has concluded that extension of public water lines to the 75 homes in the CKE is the most cost-effective long-term remedy to supply potable water to the residents. Dover Township and the local water purveyor will install the water lines using funds provided by NJDEP.

The Site Remediation Program has determined that volatile organic contamination most likely migrated from the North Gilford Park Ground Water Contamination Area, located 0.3 miles southwest of the Beachwood and Veeder Avenues CKE. This was based on a flow path model prepared for the North Gilford Park Ground Water Contamination Area that predicts that ground water flows to the northeast. In addition, contaminants similar to those found at North Gilford Park Ground Water Contamination Area but at lower concentration were found in the Beachwood and Veeder Avenues CKE. Due to widespread mercury contamination throughout the aquifer from multiple possible sources, NJDEP did not attempt to identify potential sources for this contaminant.

Giordano Lane Ground Water Contamination Hammonton Town, Atlantic County

This site consists of 10 private potable wells that were contaminated with mercury above the New Jersey Drinking Water Standard. NJDEP initially installed Point-of-Entry Treatment (POET) systems on the contaminated wells, and in 1996 the Town of Hammonton extended public water lines to the area to replace the contaminated wells and those wells at risk of becoming contaminated in the future. The Site Remediation Program began a source investigation in 1999; however, the widely scattered locations of the contaminated wells precluded the delineation of a discernible plume of mercury contamination. Furthermore, the contamination does not appear to originate from a single location. Therefore, NJDEP has concluded that the mercury contamination in the Giordano Road area resulted from non-point sources, such as the current and historical application of agricultural chemicals.

Harborage Avenue & Dockage Road Ground Water Contamination Berkeley Township, Ocean County

This site consisted of 15 private potable wells that were contaminated with tetrachloroethylene (also known as perchloroethylene, or PCE) at levels exceeding New Jersey Drinking Water Standards. The Site Remediation Program delineated the Currently Known Extent (CKE) of the ground water contamination and installed Point-of-Entry Treatment (POET) systems on the affected wells. The Berkeley Water Company subsequently extended public water lines to the affected homes using Spill Fund money provided by NJDEP. In late 2000, five additional contaminated private potable wells were discovered in this neighborhood and public water lines will be extended to these properties in the near future.

The Site Remediation program has determined that the source of the PCE contamination is located beneath a private residence on Harborage Avenue. Although the source area has been well defined, a subsurface investigation is required to determine the specific source (i.e., contaminated soil or underground storage tank) in this entirely residential area.

Lake Shore Drive Ground Water Contamination Hammonton Town, Atlantic County

The Lake Shore Drive Ground Water Contamination case consists of approximately 50 private potable wells that were contaminated with volatile organic compounds and mercury at levels exceeding New Jersey Drinking Water Standards. The contamination was first detected by the Atlantic County Health Department in 1990. In 1993, the Site Remediation Program delineated a Ground Water Impact Area (GWIA) for the site that encompassed approximately 110 properties and completed a water supply alternatives analysis that concluded extension of public water lines to all of the properties in the GWIA was the most cost-effective long-term remedy to provide potable water to the area. Hammonton Town installed the water lines in 1994 using funds provided by NJDEP.

NJDEP conducted a source investigation in 2000 and found that the widely scattered locations of the impacted wells precluded the delineation of a discernible plume for the mercury contamination in the Lakeshore Drive Area. Benzene contamination found in one private potable well was attributed to a business on South Egg Harbor Road that is currently being addressed by NJDEP's Bureau of Underground Storage Tanks. No source was identified for the volatile organic contamination. These contaminants are believed to have been the result of an isolated discharge event, possibly related to a residential septic system.

North Gilford Park Ground Water Contamination Dover Township, Ocean County

The North Gilford Park Ground Water Contamination case consists of 23 private potable wells with volatile organic contamination at levels exceeding New Jersey Drinking Water Standards and an additional 23 private potable wells with detectable volatile organic contamination below Drinking Water Standards. In addition to the volatile organic contamination, two isolated wells with mercury contamination above the Drinking Water Standard were also discovered. NJDEP established a Well Restriction Area (WRA) encompassing the affected homes in 1988. Public water lines were subsequently extended to the WRA using New Jersey Spill Fund money.

The Site Remediation Program completed a source investigation for this site in 2000. The investigation did not reveal any significant volatile organic contamination remaining in the ground water at the WRA, nor were these contaminants detected in the ground water upgradient of the WRA. The contamination is believed to have been the result of an isolated discharge event, possibly related to a residential septic system.

Pleasant Woods Ground Water Contamination Egg Harbor Township, Atlantic County

The Pleasant Woods Ground Water Contamination case consists of 64 private potable wells that were contaminated with mercury at levels exceeding New Jersey Drinking Water Standards. The potable well contamination was discovered by the Atlantic County Health Department and NJDEP in 1989. NJDEP subsequently delineated a Ground Water Impact Area (GWIA) that encompassed 128 properties and these properties were connected to the public water line in 1992. In 1998, NJDEP conducted additional potable well sampling at 28 homes outside the GWIA to determine whether the mercury plume had migrated. The sampling revealed that seven potable wells were contaminated with mercury and/or volatile organic compounds at levels exceeding Drinking Water Standards. Point -of-Entry Treatment (POET) water filtration systems have been installed at these homes as an interim measure to provide potable water for the residents.

The Site Remediation Program completed a source investigation for this site in 2000 that concluded the widely scattered locations of the impacted wells inside the GWIA precluded the delineation of a discernible plume for the mercury contamination. Therefore, the source of the mercury contamination could not be identified. The contaminated potable wells located outside the original GWIA are probably not related to the Pleasant Woods Ground Water Contamination site. Identification of the source of the volatile organic contamination in these wells has not been concluded.

Western Boulevard Ground Water Contamination Berkeley Township, Ocean County

This site consists of eight private potable wells that were contaminated with tetrachloroethylene (also known as perchloroethylene, or PCE) and trichloroethylene (TCE). The potable well contamination was discovered in 1995 by the Ocean County Health Department. NJDEP installed Point-of-Entry Treatment (POET) water filtration systems on the contaminated wells to provide potable water for the residents and in 1999 Berkeley Township extended public water lines to the affected homes.

The Site Remediation Program completed a source investigation for this site in 2000. The investigation did not reveal any volatile organic contamination remaining in the ground water near the previously affected homes, nor were these contaminants detected in the ground water upgradient of the site. The contamination is believed to have been the result of an isolated discharge event, possibly related to a residential septic system.

